To: Alan Titus[atitus@blm.gov]
From: Betenson, Matthew
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Thanks for your help!

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Matt Betenson
Associate Monument Manager

Grand Staircase-Escalante National Monument
669 South HWY 89A, Kanab, UT 84741
435-644-1205 435-644-1250 fax

PROCLAMATION
VALUES

Understanding the History of Humans** In **the Region

Southern Palute and Navajo Peoples

John Wesley Powell Exploration

Mormon Exploration and Settlement

Historic Trails, Inscriptions
Ghost Towns, Rock Houses, Line Camps

Hole-in-the-Rock Trail
Dance Hall Rock

Geologic Structures, Stratigraphy, and Erosional Features

The Grand Staircase *Paleozoic*	*An unbroken, well-exposed, sequence* of *cliffs and plateaus* of *through Terliary sedimentary rocks that rise* 5,500 *feet from the Chocolate Cliffs to the rim of Bryce Canyon. "The most colorful exposed geologic section in the world." - H.H. Doelling.*
The I:}pper Parla Region *and*	*Rugged* canyons, *natural arches, and "hydrothermal-col/apse" pipes dikes.*
White Cliffs	*Exposure of more than 1,500 verlical feet of eolian (wind-deposited), Jurassic Navajo Sandstone.*
Vermilion Cliffs *origins.*	*Jurassic Moenave and Kayenta Formations of near-shore marine*
Kaiparowits Plateau	*Cretaceous, coal-bearing de/talc sequences deposited In* a *major depositional basin. Patt of the coal field is burning underground from naturally Ignited fires. The B_uml ng_Hlls* are *evidence of past fires.*
Straight Cliffs	*These cliffs* **are a** *series of stacked, Cretaceous barrier islands. The Straight Cliffs* are so *named because the cliffs themselves mimic the Cretaceous shoreline.*
The Cockscomb	*An impressive, erosional "hogback" developed along the East Kaibab monocline. The East Kaibab monocline is the steeply dipping east 1/mb of the Kaibab anticline.*
Circle Cliffs	*A breached anticline which exposes sedimentary rocks of the Triassic Chlnle and Moenkopi Formations that contain large, unbroken petrified logs, uranium minerals, and bitumen deposits.*
Waterpocket Fold	*A long, sinuous geologic fold and erosional expression, similar to The Cockscomb, comprising the east flank of the Circle Cliffs anticline.*
Natural Arches and Bridges *Arch,*	*Escalante Natural Bridge, Grosvenor Arch, Starlight Arch, Woolsey Window Wind Arch, Boyington Arch, Phipps Arch, Sunset Arch.*

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Canyon Exposures	*Vivid colors of the Escalante Canyons region and elsewhere cause by Intense erosion and downcutting (no opportunity for soil forming) of the many Mesozoic sedimentary rocks units. These exposures provide geologists with unobscured views of Earth history.*

World-Class Paleontologlcal Sites

Circle Cliffs	*Unbroken petrified Jogs up to 30 feet in length are present in the Petrified Forest Member of the Chinle Formation.*
Kaiparowits Plateau	*One of the best, most contlunous records of Late Cretaceous life in the world. Fossils include mollusks, reptiles (turtles, crocodilians, lizards), dinosaurs, fishes, and mammals. The Kalparowits rocks contain the only evidence, in our hemisphere, of terrestrial vertebrate fauna from the Cenomanian through Santonlan (Late Cretaceous)* ***ages.***
Monument Wide	*Although not specifically noted in the Proclamation, many opportunities for paleonto/oglcal research also exist in formations of the Permian, Triassic, Jurassic, and Tertiary periods.*

Opportunities for Archaeological Research (Ancient Native Americans)

Fremont-Anasazi Occupation

Rock Art Preservation and Reconstruction

Artifact Preservation and

Reconstruction

Opportunities for Biological Research and Discovery

Five Life Zones	*The life* zones *range from low-lying desert to coniferous forests containing* a *blend of warm and cold desert floras. This rich floristlc region contains* a *large number of endemic species. Because of its rugged remoteness, the Monument contains many isolated biologic communities (hanging gardens, tinajas, rock crevices, canyon bottoms, dunal packet communities).*
Diverse Soils	*An array of strata (parent material), exposed in many places, that give rise to diverse sails that support equally diverse plant communities and their pollinators. These communities offer opportunities to study plant spec/at/on and community dynamics.*
Relict Vegetation	*Isolated because of topography, many areas contain relatively undisturbed plant communities - some* of *which may have existed since the Pleistocene. No Mans Mesa Is an example where pinyon-juniper communities contain trees* as *much as 1,400 years old.*
Cryptobiotic Crusts	*These crusts contain unique microbiotic communities that stabilize the highly erodible so/ls of the region.*
Packrat Middens	*Provide Insight into climate and vegetation over the past 25,000 years.*

Wildlife Diversity	*Besides mountain lion, black bear, mule deer, elk, and desert bighorn sheep, the Monument Is home to over 200 species of birds. Wildlife concentrates mainly in the riparian zones of the Paria and Escalante River drainages.*


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